TITLE Remote Sensing Geophysics from Skylab

INVESTIGATION NO.: 487

PERIOD COVERED: March 1974

P. I. MANAGEMENT OFFICE: NASA Johnson Space Center
Houston, Texas 77058

TECHNICAL MONITOR: Timothy White

PRINCIPAL INVESTIGATOR: Kenneth Watson
U.S. Geological Survey
Denver, Colorado 80225

TYPE OF REPORT: Monthly

Status during March

1. The last month was spent in further examination of the 1.0-2.6μm anomaly as discussed in prior reports. In addition maps and photos and previously reduced data were assembled for an upcoming field trip to the southern California test site. The purpose of the trip is to gather field spectral reflectance measurements of representative anomalous and nonanomalous areas. We will be working in conjunction with Alex Goetz of the Jet Propulsion Laboratory in Pasadena. Goetz has developed a field portable spectrometer with a response out to 3.0μm making it possible to obtain spectra in the wavelength region of the anomalous reflectance.

2. Work is continuing on the development of digital computer program to analyze the thermal data from S192 when and if it arrives.

3. As part of the geophysics program directed at areas of high seismic risk, Skylab photographs of South Carolina and the Mississippi embayment are being requested. These are to be used for mapping of fracture patterns as comparison with maps made from ERTS images and for potential correlation with geophysical data.